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**22.04.92 Bulletin 92/17**(71) Applicant: **SEIKO EPSON CORPORATION**  
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**Kramer Zwirner Hoffmann Patentanwälte**  
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**W-8000 München 60(DE)**(54) **Liquid crystal display device.**

(57) A liquid crystal display device comprises a liquid crystal panel (201) provided with a pair of substrates (202, 203) sandwiching a liquid crystal layer therebetween, a scanning electrode group (Y1-Y6) on one of said substrates, a signal electrode group (X1-X6) on the other of said substrates, a pixel being formed at each crossing point between a scanning electrode and a signal electrode, and means (205, 213) for applying a scanning voltage wave to at least one end of said scanning electrode group and for applying a signal voltage wave to at least one end of said signal electrode group to display images and characters (display pattern) and for superimposing a correcting voltage to the scanning voltage wave and/or the signal voltage wave in accordance with the display pattern. Additional means (104) are provided for varying the value and/or the time of application of said correcting voltage in accordance with the pixel positions from said at least one end of said scanning electrode group and/or in accordance with the pixel positions from said at least one end of the signal electrode group. Thereby the evenness of the display can be remarkably improved.

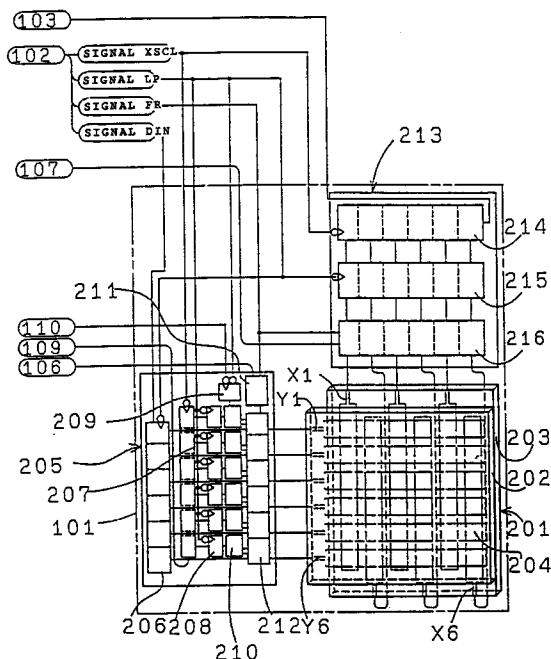


Fig. 2

**EP 0 434 033 A3**



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## EUROPEAN SEARCH REPORT

Application Number

**EP 90 12 4774**

### DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	EP-A-0 303 510 (SEIKO EPSON CO.)1989 * claims 1,7,8; figures 1,2 * - - -	1-4	G 09 G 3/36
Y	EP-A-0 345 399 (SHARP K.K.) * Abstract * * column 7, line 37 - line 42; figures 9-11 * - - -	1-4	
A	PATENT ABSTRACTS OF JAPAN vol. 13, no. 47 (P-822)3 February 1989 & JP-A-63 240 528 ( MATSUSHITA ELECTRIC IND.CO.LTD. ) 6 October 1988 * abstract * - - - - -	3	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 09 G
Place of search		Date of completion of search	Examiner
The Hague		20 February 92	CORSI F.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		E : earlier patent document, but published on, or after the filing date	
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